



# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU

## OPN-Rust Remover MOS 2

Version number: 1.0  
Revision:

Date of compilation: 2023-01-23

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

- 1.1 Product identifier  
Trade name OPN-Rust Remover MOS 2  
  
Unique formula identifier (UFI) DFRW-A56M-N00K-KH87  
Other means of identification  
Article number 66350  
Tariff No. 34031980
- 1.2 Relevant identified uses of the substance or mixture and uses advised against  
Relevant identified uses Cleaning agent  
Professional use  
Industrial use  
  
Sector of use Rustremover  
Uses advised against Do not use for products which come into contact with foodstuffs.  
Do not use for private purposes (household).
- 1.3 Details of the supplier of the safety data sheet  
OPN-CHEMIE GmbH  
In der Au 14  
57290 Neunkirchen  
  
www.opn-chemie.de  
Competent person responsible for the safety data sheet Barbara Angelika Gros-Petri  
e-mail (competent person) baerbel.petri@opn-chemie.de
- 1.4 Emergency telephone number  
Emergency information service Poison Information Center Freiburg +49(0)761/19240

### SECTION 2: Hazards identification

- 2.1 Classification of the substance or mixture  
Classification according to Regulation (EC) No 1272/2008 (CLP)

Section	Hazard class	Hazard class and category	Hazard statement
3.9	Specific target organ toxicity - repeated exposure	STOT RE 2	H373
3.10	Aspiration hazard	Asp. Tox. 1	H304
4.1C	Hazardous to the aquatic environment - chronic hazard	Aquatic Chronic 3	H412

Code	Supplemental hazard information
EUH066	Repeated exposure may cause skin dryness or cracking

#### Remarks

For full text of abbreviations: see SECTION 16

The most important adverse physicochemical, human health and environmental effects

Delayed or immediate effects can be expected after short or long-term exposure. Spillage and fire water can cause pollution of water-courses.

- 2.2 Label elements  
Labelling according to Regulation (EC) No 1272/2008 (CLP)

Signal word

Danger

Pictograms

GHS08



Hazard statements

H304  
H373  
H412

May be fatal if swallowed and enters airways.  
May cause damage to organs through prolonged or repeated exposure.  
Harmful to aquatic life with long lasting effects.

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### Precautionary statements

P102 Keep out of reach of children.  
P261 Avoid breathing spray.  
P271 Use only outdoors or in a well-ventilated area.  
P301+P310 IF SWALLOWED: Immediately call a doctor.  
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P312 Call a POISON CENTER/doctor if you feel unwell.  
P331 Do NOT induce vomiting.  
P403+P233 Store in a well-ventilated place. Keep container tightly closed.  
P501 Dispose of contents / container in accordance with national regulations of the disposal.

### Additional labelling requirements

EUH066 Repeated exposure may cause skin dryness or cracking.

### Hazardous ingredients for labelling

Aliphatic, aromatic hydrocarbons  
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, aromatics  
<2-25%

### 2.3 Other hazards

Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

## SECTION 3: Composition/information on ingredients





### 3.1 Substances

Not relevant (mixture).

### 3.2 Mixtures

Description of the mixture

Mixture of substances listed below with nonhazardous additions

Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	EC No 925-653-7  REACH Reg. No 01-2119458869-15-xxxx	50 – < 75	Asp. Tox. 1 / H304 Aquatic Chronic 3 / H412	
Distillates (petroleum), solvent-dewaxed light paraffinic	CAS No 64742-56-9  EC No 265-159-2  REACH Reg. No 01-2119480132-48-xxxx	10 – < 25	Asp. Tox. 1 / H304	
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	CAS No 1174522-09-8  EC No 919-164-8  REACH Reg. No 01-2119473977-17-xxxx	5 – < 10	STOT RE 1 / H372 Asp. Tox. 1 / H304 Aquatic Chronic 3 / H412	
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, aromatics <2-25%	EC No 926-141-6  REACH Reg. No 01-2119456620-43-xxxx 01-2119484819-18-xxxx	5 – < 10	Asp. Tox. 1 / H304	


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Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms
Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	EC No 919-446-0  REACH Reg. No 01-2119458049-33-xxxx	1 – < 5	Flam. Liq. 3 / H226 STOT SE 3 / H336 Asp. Tox. 1 / H304 Aquatic Chronic 2 / H411	

### 3.3 Remarks

For full text of abbreviations: see SECTION 16

### 3.4 Regulation (EC) no. 648/2004 on detergents / Labelling for contents

Aliphatic hydrocarbons.  
Aromatic hydrocarbons.

30 % and more.  
5 % or over but less than 15 %.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General notes

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

#### Following inhalation

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. Provide fresh air.

#### Following skin contact

Wash with plenty of soap and water.

#### Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

#### Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

### 4.2 Most important symptoms and effects, both acute and delayed

Symptoms and effects are not known to date.

### 4.3 Indication of any immediate medical attention and special treatment needed

none

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media

Water spray. BC-powder. Carbon dioxide (CO<sub>2</sub>).

Unsuitable extinguishing media

Water jet.

### 5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>).

### 5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

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### SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures  
For non-emergency personnel  
Remove persons to safety.  
For emergency responders  
Wear breathing apparatus if exposed to vapours/dust/spray/gases.
- 6.2 Environmental precautions  
Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.
- 6.3 Methods and material for containment and cleaning up  
Advice on how to contain a spill  
Covering of drains.  
Advice on how to clean up a spill  
Wipe up with absorbent material (e.g. cloth, fleece). collect spillage  
sawdust  
kieselgur (diatomite)  
sand  
universal binder  
Appropriate containment techniques  
Use of adsorbent materials.  
Other information relating to spills and releases  
Place in appropriate containers for disposal. Ventilate affected area.
- 6.4 Reference to other sections  
Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

### SECTION 7: Handling and storage

- 7.1 Precautions for safe handling  
Recommendations  
Measures to prevent fire as well as aerosol and dust generation  
Use local and general ventilation. Use only in well-ventilated areas.  
Advice on general occupational hygiene  
Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.
- 7.2 Conditions for safe storage, including any incompatibilities  
Managing of associated risks  
Storage class (LGK)  
10
- 7.3 Specific end use(s)  
No further relevant information available.

### SECTION 8: Exposure controls/personal protection

- 8.1 Control parameters  
National limit values  
Occupational exposure limit values (Workplace Exposure Limits)  
this information is not available  
Relevant DNELs/DMELs/PNECs and other threshold levels  
Relevant DNELs of components of the mixture

Relevant DNELs of components of the mixture						
Name of substance	CAS No	End-point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)		DNEL	44 mg/kg	Human, dermal	Worker (industry)	Chronic - systemic effects

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Relevant DNELs of components of the mixture						
Name of substance	CAS No	End-point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)		DNEL	330 mg/m <sup>3</sup>	Human, inhalatory	Worker (industry)	Chronic - systemic effects

- 8.2 Exposure controls
- Appropriate engineering controls
- General ventilation.
- Individual protection measures (personal protective equipment)
- Eye/face protection
- Do not spray in eyes. If required use tight-fitting goggles.
- Skin protection
- Hand protection
- Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.
- Type of material
- NBR: acrylonitrile-butadiene rubber.
- Material thickness
- > 0,7 mm
- Breakthrough times of the glove material
- >480 minutes (permeation: level 6)
- Other protection measures
- Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.
- Respiratory protection
- Operate if possible out of doors or in a well-ventilated place. In case of inadequate ventilation wear respiratory protection. Type: A-P2 (combined filters against particles and organic gases and vapours, colour code: Brown/White).
- Environmental exposure controls
- Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

### SECTION 9: Physical and chemical properties

- 9.1 Information on basic physical and chemical properties
- |   |   |
|---|---|
| Physical state                          | Liquid  |
| Colour                                  | Brownish  |
| Odour                                   | Product specific  |
| Initial boiling point and boiling range | 151 °C at 1 atm   |
| Flammability (solid, gas)               | this material is combustible, but will not ignite readily |
| Explosive limits                        | 0.6 vol% - 7 vol%   |
| Flash point                             | >60 °C at 1 atm   |
| Auto-ignition temperature               | >200 °C   |
| Water solubility                        | Insoluble   |
| Vapour pressure                         | 0.05 kPa at 20 °C   |
| Density                                 | 0.8 g/ml at 20 °C   |
- 9.2 Other information
- Other safety characteristics
- There is no additional information

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### SECTION 10: Stability and reactivity

- 10.1 Reactivity  
Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials".
- 10.2 Chemical stability  
See below "Conditions to avoid".
- 10.3 Possibility of hazardous reactions  
No known hazardous reactions.
- 10.4 Conditions to avoid  
There are no specific conditions known which have to be avoided.  
Physical stresses which might result in a hazardous situation and have to be avoided  
High temperatures.
- 10.5 Incompatible materials  
Oxidisers.
- 10.6 Hazardous decomposition products  
Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

### SECTION 11: Toxicological information

- 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008  
Test data are not available for the complete mixture.  
Classification procedure  
The method for classification of the mixture is based on ingredients of the mixture (additivity formula).  
Classification according to GHS (1272/2008/EC, CLP)  
Acute toxicity  
Shall not be classified as acutely toxic.  
Skin corrosion/irritation  
Shall not be classified as corrosive/irritant to skin.  
Serious eye damage/eye irritation  
Shall not be classified as seriously damaging to the eye or eye irritant.  
Respiratory or skin sensitisation  
Shall not be classified as a respiratory or skin sensitiser.  
Germ cell mutagenicity  
Shall not be classified as germ cell mutagenic.  
Carcinogenicity  
Shall not be classified as carcinogenic.  
Reproductive toxicity  
Shall not be classified as a reproductive toxicant.  
• Specific target organ toxicity - single exposure  
Shall not be classified as a specific target organ toxicant (single exposure).  
• Specific target organ toxicity - repeated exposure  
May cause damage to organs through prolonged or repeated exposure.  
Aspiration hazard  
May be fatal if swallowed and enters airways.  
Other information  
Repeated exposure may cause skin dryness or cracking.
- 11.2 Information on other hazards  
There is no additional information.

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### SECTION 12: Ecological information

#### 12.1 Toxicity

Harmful to aquatic life with long lasting effects.

Ordinance on systems for handling water-polluting substances (Ordinance on facilities for handling substances hazardous to water) (AwSV): WGK (Germany) 3, highly hazardous to water

Aquatic toxicity (chronic) of components of the mixture					
Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	1174522-09-8	EL50	1.19 mg/l	Aquatic invertebrates	21 d
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	1174522-09-8	EC50	0.328 mg/l	Aquatic invertebrates	21 d

#### 12.2 Persistence and degradability

Degradability of components of the mixture						
Name of substance	CAS No	Process	Degradation rate	Time	Method	Source
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	1174522-09-8	Oxygen depletion	13.8 %	4 d		ECHA
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, aromatics <2-25%		Oxygen depletion	7.3 %	4 d		ECHA
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, aromatics <2-25%		Carbon dioxide generation	0 %	3 d		ECHA

#### 12.3 Bioaccumulative potential

Data are not available.

#### 12.4 Mobility in soil

Data are not available.

#### 12.5 Results of PBT and vPvB assessment

Data are not available.

#### 12.6 Endocrine disrupting properties

None of the ingredients are listed.

#### 12.7 Other adverse effects

Data are not available.

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### SECTION 13: Disposal considerations

- 13.1 Waste treatment methods  
Sewage disposal-relevant information  
Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.  
Waste treatment of containers/packages  
Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.  
Remarks  
Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

### SECTION 14: Transport information

- |      |   |   |
|------|---|---|
| 14.1 | UN number or ID number  | Not assigned  |
| 14.2 | UN proper shipping name<br>ADN  | SUBSTANCES WITH A FLASH-POINT ABOVE 60 °C AND NOT MORE THAN 100 °C    |
| 14.3 | Transport hazard class(es)<br>ADN   | 9   |
| 14.4 | Packing group   | Not assigned  |
| 14.5 | Environmental hazards   | Non-environmentally hazardous acc. to the dangerous goods regulations |
| 14.6 | Special precautions for user<br>There is no additional information.   |   |
| 14.7 | Maritime transport in bulk according to IMO instruments<br>The cargo is not intended to be carried in bulk. |   |

#### Information for each of the UN Model Regulations

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN)Additional information

Not subject to ADR. Not subject to RID.

International Maritime Dangerous Goods Code (IMDG)Additional information

Not subject to IMDG.

International Civil Aviation Organization (ICAO-IATA/DGR)Additional information

Not subject to ICAO-IATA.

### SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture  
Relevant provisions of the European Union (EU)  
List of substances subject to authorisation (REACH, Annex XIV)/SVHC - candidate list  
none of the ingredients are listed  
Industrial Emissions Directive (IED)  
VOC content 97.21 %  
Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)  
none of the ingredients are listed  
Regulation concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)  
none of the ingredients are listed  
Water Framework Directive (WFD)  
none of the ingredients are listed  
Regulation 648/2004/EC on detergents  
Labelling of contents.  
Aliphatic hydrocarbons. 30 % and more.  
Aromatic hydrocarbons. 5 % or over but less than 15 %.  
Regulation on persistent organic pollutants (POP)  
None of the ingredients are listed.  
National regulations (Germany)  
Ordinance on systems for handling water-polluting substances (Ordinance on facilities for handling substances hazardous to water)(AwSV)  
Water hazard class 3 (highly hazardous to water)



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Technical instructions on air quality control (Germany)

Number	Group of substances	Class	Conc.	Mass flow	Mass concentration	Notation
5.2.5	Organic substances	Class I	5 – < 10 wt%	0.1 kg/h	20 mg/m <sup>3</sup>	3)
5.2.5	Organic substances		≥ 25 wt%	0.5 kg/h	50 mg/m <sup>3</sup>	3)

Notation

- 3) A total mass flow of 0.50 kg/h or a total mass concentration of 50 mg/m<sup>3</sup>, each of which to be indicated as total carbon, shall not be exceeded (except organic particulate matter)

Storage of hazardous substances in non-stationary containers (TRGS 510) (Germany)

Storage class (LGK)

10 (Combustible liquids)

National inventories

Country	Inventory	Status
EU	REACH Reg.	Not all ingredients are listed

Legend

REACH Reg. REACH registered substances

### 15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

## SECTION 16: Other information

### 16.1 Indication of changes (revised safety data sheet)

Alignment to regulation. Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU

Restructuring: section 3, section 9, section 14

Einfügung: UFI: DFRW-A56M-N00K-KH87

### 16.2 Abbreviations and acronyms

ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways).
ADR	Accord relatif au transport international des marchandises dangereuses par route (Agreement concerning the International Carriage of Dangerous Goods by Road).
Aquatic Chronic	Hazardous to the aquatic environment - chronic hazard.
Asp. Tox.	Aspiration hazard.
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances).
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures.
DGR	Dangerous Goods Regulations (see IATA/DGR).
DMEL	Derived Minimal Effect Level.
DNEL	Derived No-Effect Level.
EC50	Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval.
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union).
EINECS	European Inventory of Existing Commercial Chemical Substances.
EL50	Effective Loading 50 %: the EL50 corresponds to the loading rate required to produce a response in 50% of the test organisms.
ELINCS	European List of Notified Chemical Substances.
Flam. Liq.	Flammable liquid.
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations.
IATA	International Air Transport Association.
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA).
ICAO	International Civil Aviation Organization.
IMDG	International Maritime Dangerous Goods Code.
LGK	Lagerklasse (storage class according to TRGS 510, Germany).
NLP	No-Longer Polymer.
PBT	Persistent, Bioaccumulative and Toxic.
PNEC	Predicted No-Effect Concentration.
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals.
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail).
STOT RE	Specific target organ toxicity - repeated exposure.
STOT SE	Specific target organ toxicity - single exposure.
SVHC	Substance of Very High Concern.
TRGS	Technische Regeln für Gefahrstoffe (technical rules for hazardous substances, Germany).

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VOC	Volatile Organic Compounds.
VPvB	Very Persistent and very Bioaccumulative.

### 16.3 Key literature references and sources for data

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures.  
Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU.

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN).  
International Maritime Dangerous Goods Code (IMDG).  
Dangerous Goods Regulations (DGR) for the air transport (IATA).

### 16.4 Classification procedure

Physical and chemical properties. The classification is based on tested mixture.  
Health hazards. The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

### 16.5 List of relevant phrases (code and full text as stated in section 2 and 3)

H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H336	May cause drowsiness or dizziness.
H372	Causes damage to organs through prolonged or repeated exposure.
H373	May cause damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

#### Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.